



Australian Government

Department of Education, Employment and Workplace Relations

PUADEF0H009B Work safely with lasers

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to work safely in an environment where lasers may be employed.

This unit does not include the operation of laser equipment.

Application of the Unit

Application of the Unit

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s

Nil

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<p>1. Identify laser safety issues</p>	<p>1.1 <i>Potential laser source</i> is identified in accordance with relevant organisational policy and procedures</p> <p>1.2 <i>Type</i> and <i>class of laser</i> is identified in accordance with the relevant organisational policy and procedures</p> <p>1.3 <i>Dangers/risks associated with lasers</i> are identified in accordance with organisational policy and procedures</p> <p>1.4 <i>Laser safety controls</i> are applied in accordance with legislative and organisational policy and procedures</p> <p>1.5 <i>Laser warning signage</i> is identified and correctly interpreted</p>
<p>2. Apply safe work practices</p>	<p>2.1 Lasers deployed in the workplace are identified in accordance with legislative and organisational procedures</p> <p>2.2 <i>Laser exposure situations</i> are identified and interpreted</p> <p>2.3 Appropriate <i>personal protective equipment</i> (PPE) is identified and applied in accordance with legislative and organisational procedures</p> <p>2.4 Other control measures are identified and adhered to in accordance with legislative and organisational procedures</p>
<p>3. Report on workplace laser incidents</p>	<p>3.1 <i>Incident reporting</i> procedures are applied in accordance with organisational procedures</p> <p>3.2 <i>Health surveillance</i> requirements are adhered to in accordance with current organisational policy and procedures</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- access, read, interpret and apply information on laser operations
- identify laser sources

Required Knowledge

- occupational health and safety (OH&S) requirements relevant to laser emissions in the workplace
- organisational policy and standards relevant to laser operations emissions

Evidence Guide

EVIDENCE GUIDE

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EVIDENCE GUIDE

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability, when observing laser warning signs or being informed of the presence of lasers, to implement sound protective measures, while still undertaking one's core function, within acceptable tolerances of the laser hazard described or present.

Consistency in performance

Competency should be demonstrated in an environment where lasers are present. This may be in a workplace or in a simulated workplace environment.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated workplace environment.

Specific resources for assessment

There are no special resource implications for this unit.

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

Range Statement

RANGE STATEMENT

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

Potential laser source may include	<ul style="list-style-type: none"> Bar-code scanners Medical/dental instruments Range finders (as found on military weapons and survey equipment)
Type of laser may include	<ul style="list-style-type: none"> Liquid Gas Semiconductor Solid
Class of laser may include	Lasers classified in accordance with the Australian Standards system in accordance with the potential for causing biological damage
Dangers/risks associated with lasers may include	<ul style="list-style-type: none"> Awareness of the effect of weather and/or reflecting surfaces on differing types of laser transmission Extended source viewing Irradiance and radiant exposure Point source and intra-beam viewing Specular reflections Use of magnifying optics
Laser safety controls may include	<ul style="list-style-type: none"> Establishment of nominal ocular hazard areas (NOHA) Exclusion zone/specification of laser hazard areas Maintenance of a laser register Protective eye wear specified in accordance with perceived laser threat Use of interlocks to prevent inadvertent discharge of laser when safety features are not in place Use of keys to activate laser Warnings to avoid observation of source
Laser warning signage may include	<ul style="list-style-type: none"> Labelling/signage on equipment Notification of responsibilities and provision of safety

RANGE STATEMENT

	information
	Warning signage/notices surrounding exclusion zone or work areas where lasers may be operating
Laser exposure situations may include	Laboratories, medical and dental clinics where laser equipment is in use
	Maintenance workshops
	Military training and field operations where laser devices are in use
Personal protective equipment may include	Protective clothing
	Specific eye protection goggles
Incident reporting may include	Affected person reporting
	Laser operator reports
	Organisational reporting procedures
Health surveillance may include	Eye testing

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s Nil